

TERRACE TO KITIMAT  
TRANSMISSION PROJECT  
OPEN HOUSE

5 P.M. – 8 P.M.



# WELCOME!



Take a look at the storyboards and maps to learn more about the Terrace to Kitimat Transmission Project

- Why it is needed
- What options BC Hydro is studying
- **How to provide your input**

Project team members are here to answer your questions, so please have a chat with us.



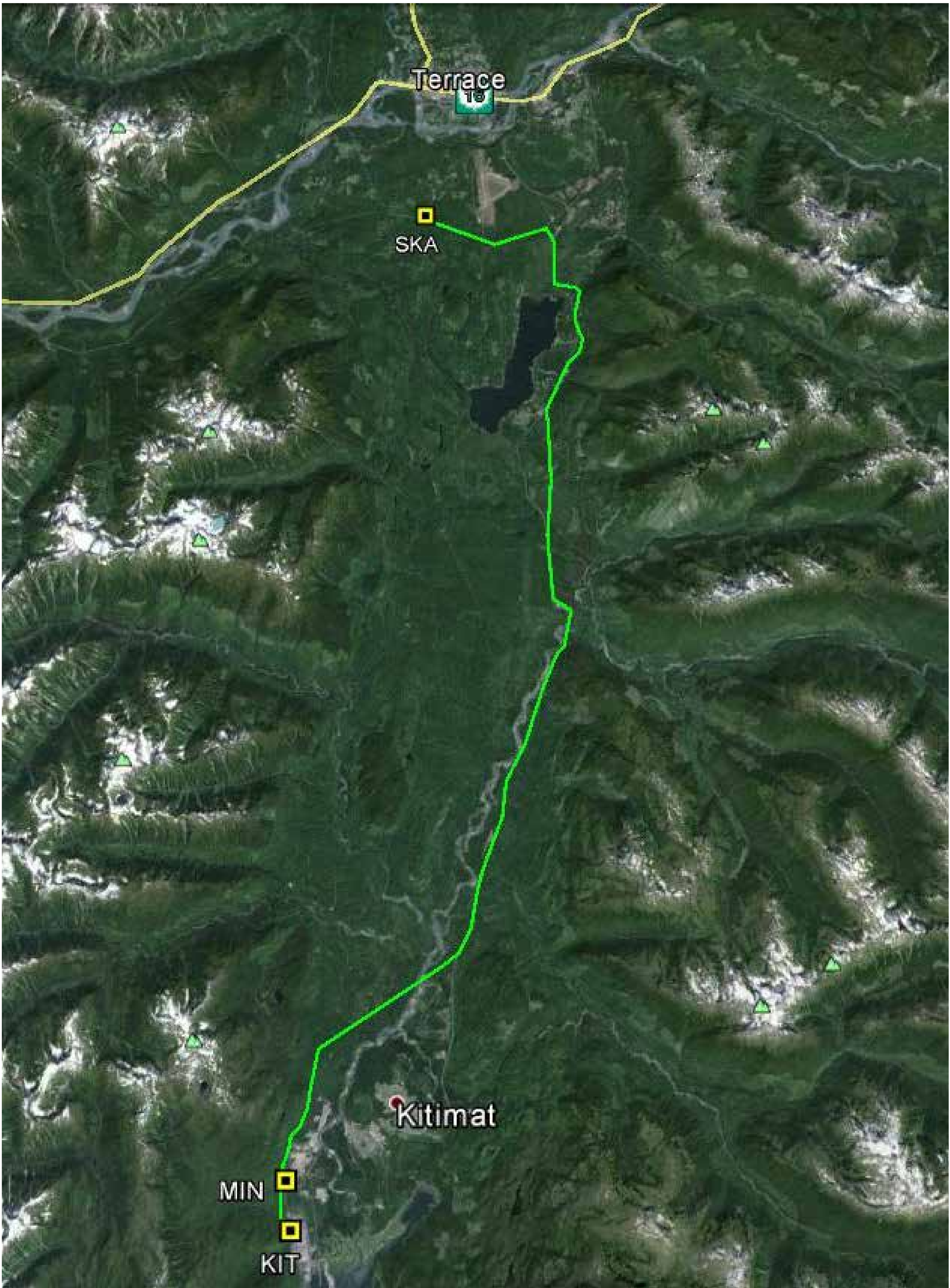


Image provided by Google Earth Pro



# THE SITUATION



The Kitimat area receives electricity through a single 287 kV transmission line (green), from Skeena Substation near Terrace, to Minette Substation.

Minette Substation then supplies the town of Kitimat with distribution-level power.

A second 287 kV line extends from Minette Substation to Kitimat Substation, at Rio Tinto Alcan.



# THE PROBLEM



The two lines are reaching the end of their useful lives.

- It is more difficult and costly to replace aging equipment and keep these important lines operating
- Demand for electricity is expected to increase considerably in the Kitimat area. The existing line into Kitimat cannot carry enough power.

# THE LINES MUST BE REPLACED

BC Hydro is studying 5 options for replacing the main transmission line to Minette Substation

**STRATEGY:** build to meet increased need for electricity

- **Option 1:** build one new 287 kV line on east side of valley on new right of way (ROW). Remove existing line.
- **Option 2:** build one new 287 kV line on west side of valley on new ROW. Remove existing line.

# THE LINES

## MUST BE REPLACED

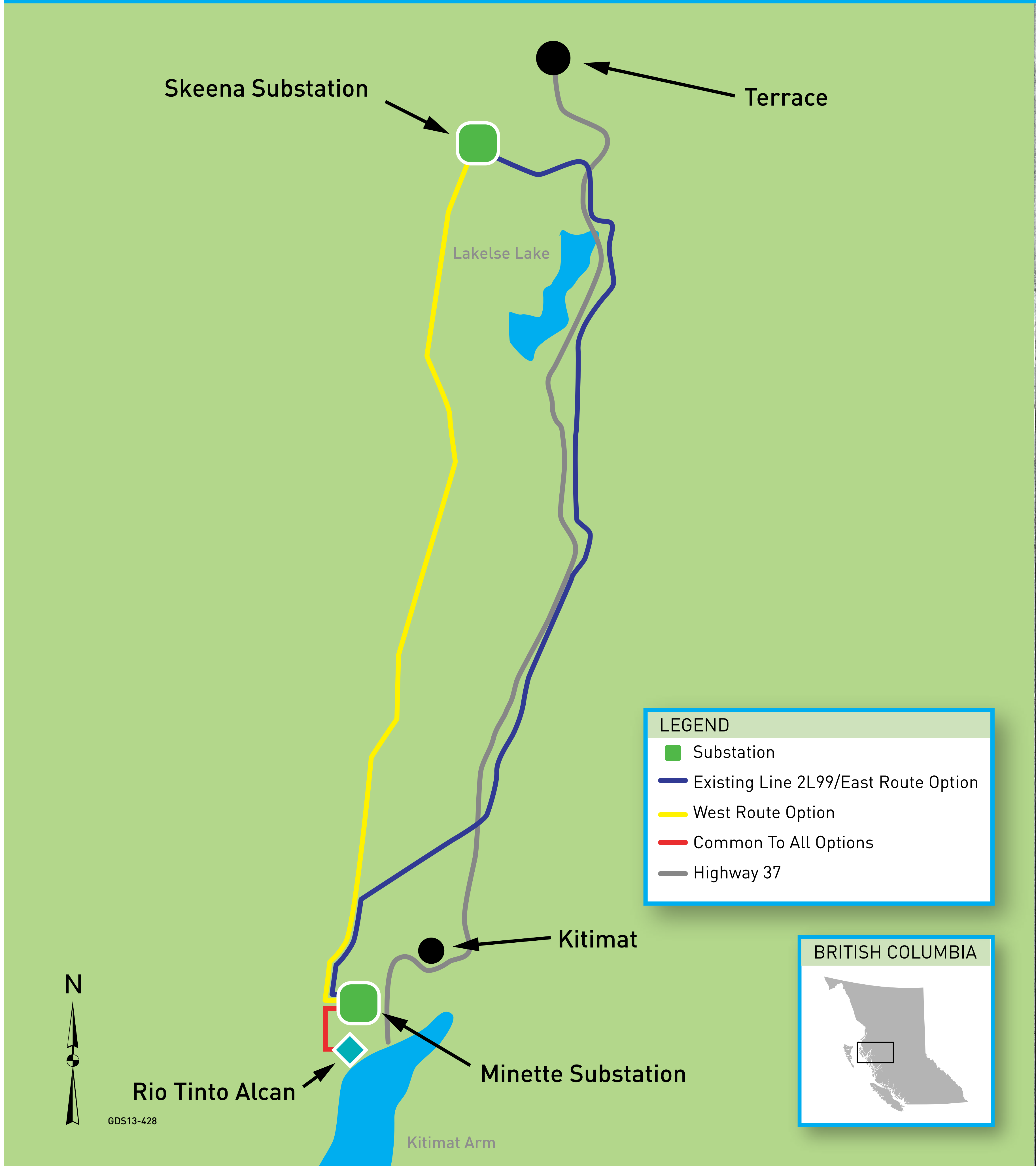
**STRATEGY:** build to make the system more reliable. This means building TWO lines, so if one is out of service, the other can “take over.”

- **Option 3:** build one new 287 kV line on new ROW on west side of valley. Remove existing line and use old ROW for second new 287 kV line on east side of valley
- **Option 4:** build one new 287 kV line on new ROW on east side of valley. Remove existing line and use old ROW for second new 287 kV line, also on east side of valley.
- **Option 5:** build two new 287 kV lines on new ROW on west side of valley. Remove existing line.

In all cases, the short 287 kV line to Rio Tinto Alcan will be replaced with a single new line.



# TERRACE TO KITIMAT TRANSMISSION PROJECT – ROUTE OPTIONS





# MAKING A DECISION



We plan to evaluate the 5 options and decide on a preferred option by summer 2014

Evaluation criteria will include:

- Results of environmental, archaeological, feasibility, constructability, cost studies
- Input from First Nations, local governments and interested parties



# ENVIRONMENT/ARCHEOLOGY



At this stage, AMEC, our environmental consultant is conducting desktop studies:

- **Biophysical**
  - > Landforms and climate
  - > Fisheries and aquatic resources
  - > Vegetation and wildlife
- **Human environment**
  - > Non-traditional land use and visual aesthetic resources
  - > Archaeology and historic heritage
  - > Noise; EMF
- **Geotechnical and geohazards**

Field studies will take place once the preferred option is selected.



# WE WANT YOUR INPUT

## TONIGHT:

- Take a look at the detailed route maps hung on the walls.
- Please provide your written feedback by filling out an options evaluation form.

## OR FROM HOME:

- Detailed maps, the options report and the storyboards are posted on: [bchydro.com/tkt](http://bchydro.com/tkt)
- Take a look and email in your comments by April 15, 2014.

## FOR MORE INFORMATION:

[bchydro.com/tkt](http://bchydro.com/tkt)

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